

5    What is Claimed is:

1. An air conditioner comprising:

a condenser which generates a high temperature heat;

an evaporator which absorbs an external heat, and forms condensed water on a surface thereof by a temperature difference with an external air; and,

10        condensed water self disposal means for transferring the condensed water on the surface of the condenser to a condenser side, and evaporating the condensed water from the surface of the condenser by the high temperature heat from the condenser, thereby disposing of the condensed water within the air conditioner itself.

15        2. An air conditioner as claimed in claim 1, wherein the condensed water self disposal means includes;

a guide flow passage for guiding the condensed water formed at the evaporator to a condenser side, and

20        a condensed water spraying unit provided on a side of the condenser for spraying the condensed water guided from the guide flow passage onto the surface of the condenser.

3. An air conditioner as claimed in claim 2, wherein the condensed water spraying unit includes;

25        a motor with two degree of freedom over the condenser having a shaft for making rotating and linear movement,

a heat dissipation fan coupled with the motor shaft for rotating when the motor is in operation, and

a pump part provided at an end of the motor shaft for introducing the condensed

5 water into the guide flow passage, and supplying the condensed water to an upper part of the heat dissipation fan, by the linear movement of the motor shaft when the motor is in operation.

4. An air conditioner as claimed in claim 3, wherein the pump part includes;  
a hollow body connected to the guide flow passage for receiving the condensed water,  
10 and having a hole for movably inserting an end of the motor shaft,  
a piston at one end of the motor shaft for making a linear motion with the motor shaft when the motor is in operation for drawing the condensed water from the guide flow passage, and pressing the condensed water in the hollow body, and  
a supply tube connected to the body for supplying the condensed water to an upper  
15 part of the heat dissipation fan by a pressing force of the piston.

5. An air conditioner as claimed in claim 4, wherein the piston includes;  
a through hole for passing the condensed water, and  
a closing member for opening/closing the through hole to generating a pumping force  
20 in a piston up/down movement direction.

6. An air conditioner as claimed in claim 5, wherein the closing member is hinged on a bottom surface of the piston for opening the through hole when the piston moves upward, and closing the through hole when the piston moves downward.

25 7. An air conditioner as claimed in claim 6, wherein the guide flow passage is connected to the body at a position above a top dead center of the piston, and the supply tube is connected to the body at a position below a bottom dead center of the piston.

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8. An air conditioner as claimed in claim 5, wherein the closing member is hinged on an upper surface of the piston for closing the through hole when the piston moves upward, and opening the through hole when the piston moves downward.

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9. An air conditioner as claimed in claim 8, wherein the guide flow passage is connected to the body at a position below the bottom dead center of the piston, and the supply tube is connected to the body at a position above a top dead center of the piston.

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10. An air conditioner as claimed in claim 3, wherein the heat dissipation fan is arranged over the compressor, and the condenser is bent around the heat dissipation fan and the compressor.

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11. An air conditioner as claimed in claim 10, further comprising a water proof cover on the compressor for preventing infiltration of water into electric fittings above the compressor.